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NOTIFICATION OF TRANSMITTAL
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OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rule 72.2)

To:

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MIYOSHI
PATENT

Date of mailing (day/month/year) 01 September 2005 (01.09.2005)	
Applicant's or agent's file reference JSONY-486PCT	IMPORTANT NOTIFICATION
International application No. PCT/JP2003/016339	International filing date (day/month/year) 19 December 2003 (19.12.2003)
Applicant SONY CORPORATION et al	

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

CN, KR

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

US

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Yoshiko Kuwahara
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Translation

PATENT COOPERATION TREATY

PCT/JP2003/016339



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JSONY-486PCT	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/016339	International filing date (<i>day/month/year</i>) 19 December 2003 (19.12.2003)	Priority date (<i>day/month/year</i>) 27 December 2002 (27.12.2002)
International Patent Classification (IPC) or national classification and IPC H02M 3/28		
Applicant SONY CORPORATION		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising: a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of <u>5</u> sheets, as follows: <div style="margin-left: 40px;"><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</div> b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items: <div style="margin-left: 40px;"><input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application</div>

Date of submission of the demand 14 May 2004 (14.05.2004)	Date of completion of this report 08 February 2005 (08.02.2005)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/016339

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:
pages _____ 1-71 _____, as originally filed/furnished
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____
- ☒ the claims:
pages _____, as originally filed/furnished
pages* _____, as amended (together with any statement) under Article 19
pages* _____ 1, 2, 4, 6 _____ received by this Authority on 13 September 2004 (13.09.2004)
pages* _____ received by this Authority on _____
- ☒ the drawings:
pages _____ 1-12 _____, as originally filed/furnished
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☒ the claims, Nos. _____ 3, 5, 7 _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP03/16339

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1, 2, 4, 6	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1, 2, 4, 6	NO
Industrial applicability (IA)	Claims	1, 2, 4, 6	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP, 8-37778, A (Sony Corp.), 6 February, 1996 (06.02.96)

Document 2: JP, 2002-64981, A (Sony Corp.), 28 February, 2002 (28.02.02)

Document 3: JP, 3-15269, A (Fuji Electric Co., Ltd.), 23 January, 1991 (23.01.91)

Document 4: Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 108886/1990 (Laid-open No. 64989/1992), (Fuji Electric Co., Ltd.), 4 June, 1992 (04.06.92)

Document 5: JP, 2002-247852, A (Sony Corp.), 30 August, 2002 (30.08.02)

Document 6: JP, 2001-333574, A (Matsushita Electric Industrial Co., Ltd.), 30 November, 2001 (30.11.01)

Document 7: JP, 2002-112542, A (Fujitsu General Ltd.), 12 April, 2002 (12.04.02)

The subject matters of claims 1 and 2 do not appear to involve an inventive step in view of documents 1-3 cited in the ISR. Because (1) a switching power-supply circuit having a power-factor improvement circuit, described in document 1, (2) a switching power-supply circuit having both (a) a constant-voltage control means using frequency control and (b) a constant-voltage control means using inductance control, described in document 2, and (3) a constitution of switching power-supply circuits, described in document 3, wherein a plurality of switching power-supply circuits each having (a) a plurality of output parts and (b) a switching means to control the timing of supply on one of the said output parts, are provided in parallel, wherein the said plurality of output parts of each of the said plurality of switching power-supply circuits are activated in a particular order, belong to technical fields closely related to one another, a person skilled in the art could have easily conceived of the idea of applying a constant-voltage control means using frequency control and a constant-voltage control means using inductance control, both described in document 2, and a means described in document 3 whereby a plurality of switching power-supply circuits are so constituted in parallel connection as to obtain a plurality of direct-current output voltages wherein the plurality of output parts are activated in a particular order, to a switching power-supply circuit having a power-factor improvement circuit, described in document 1.

The subject matter of claim 4 does not appear to involve an inventive step in view of documents 1-3 and 5 cited in the ISR. A switching power-supply device having a rectifying means to switch between voltage-doubling rectifying operation and equal-voltage rectifying operation is described in document 5.

The subject matter of claim 6 does not appear to involve an inventive step in view of documents 1-3 and 5-7 cited in the ISR. Using a plurality of output voltages of a switching power-supply device for drive-power supply for a plasma display device is well known, as described in documents 6 and 7.